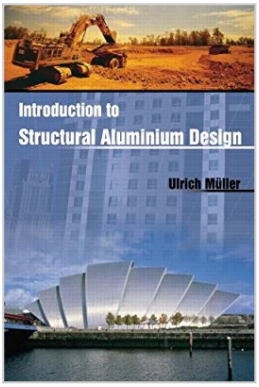

Introduction to Structural Aluminum Design

By Ulrich Muller

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This book discusses the use of aluminium in structural and non-structural applications and provides an introduction to designing structures made from aluminium or aluminium alloy elements. It provides a complete ready reference to the material properties and behavior of aluminium, and its use in structural design.

In the context of information about the material itself, fabrication, structural design and corrosion, structural analysis, serviceability, element design and fatigue the author considers the strengths of designing with aluminium alloy members and how any weaknesses can be overcome. Reference is made throughout to EN 1999, Eurocode 9, and its design methods are discussed and illustrated.

With most of its structural strength properties close to steel and with consideration for the special properties of aluminium alloys, there is considerable scope to make better use of this material in construction. Many years of working with aluminium have provided the author with the knowledge to avoid pitfalls and problems in design, fabrication and protection of structures, thus avoiding costly remedial work.

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Introduction to Structural Aluminum Design By Ulrich Muller Bibliography

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Editorial Review

Review
'...a succinct coverage of all basic aspects of the stuctural of aluminium members, joints and systems based on the provisions of BS8118 and, more particularly, EC9. It is very clearly written, easy to follow and introduces the reader to the background to each topic before providing a commentary on the use of the Code provisions. ...it is well suited to those encountering in the structural use of aluminium for the first time. ...it should prove extremely useful to practitioners confronted with the need to design using aluminium.' Engineering Structures 'Ulrich Muller's book effectively highlights the properties and applications of aluminium, giving information about the material itself, as well as its fabrication, structural design and corrosion potential. ... Additionally, the book considers design standards such as the British Standard and Eurocode. The book is well designed and organised. It allows the reader to consider how aluminium might be improved structurally to be used more widely in future, in order to save money and meet not only structural requirements but also safety and serviceability.' Times Higher Education

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